# Our Health Counts Toronto linkage to Institute of Clinical and Evaluative Sciences (ICES) COVID-19 data holdings

Incidence of positive COVID-19 cases and proportion of COVID-19 tests, hospitalizations and vaccinations among First Nations, Inuit, and Métis (FNIM) living in Toronto.

Data reported as of: Nov 8, 2022

**Principal Investigator:** Dr. Janet Smylie

**Community Leads:** Seventh Generation Midwives Toronto

Presentation prepared by: Stephanie McConkey & Raman Brar (Well Living House)





Table 1: Proportion of Indigenous adults who have received first, second and third doses of COVID-19 vaccination as of November 8, 2022 in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

	FNIM Population in Toronto*		City of Tor	onto Population	Ontario Population	
	n	HCG-Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %
First Dose	509	71.85 [66.97, 76.74]	1,990,186	85.00	10,483,080	85.97
Second Dose	477	65.04 [59.89, 70.19]	1,955,262	83.51	10,298,212	84.45
Third Dose	316	44.76 [39.19, 50.33]	1,367,227	58.40	7,013,783	57.52
Fourth Dose	143	20.26 [15.71, 24.82]	551,481	23.55	2,811,712	23.06
Total	689		2,341,276		12,194,484	

<sup>\*</sup>Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019, excluding seeds

Figure 1: Proportion of Indigenous adults who have received <u>first dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

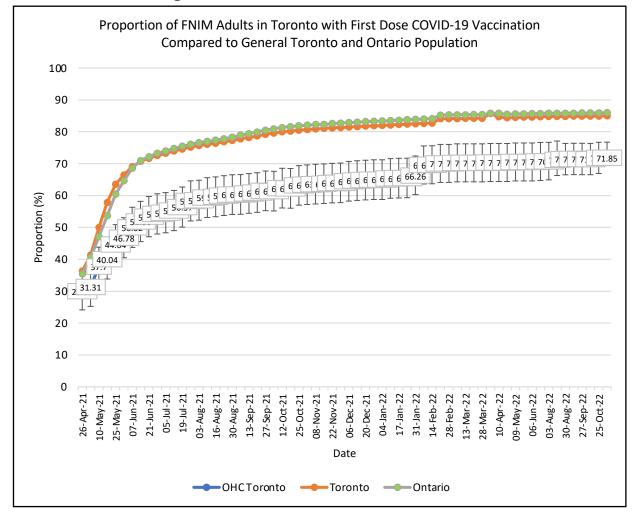


Figure 2: Proportion of Indigenous adults who have received <u>second</u> <u>dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

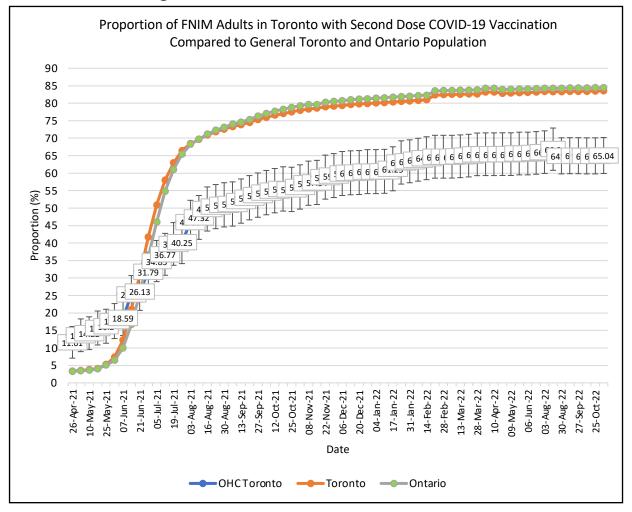


Figure 3: Proportion of Indigenous adults who have received <u>third</u> <u>dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

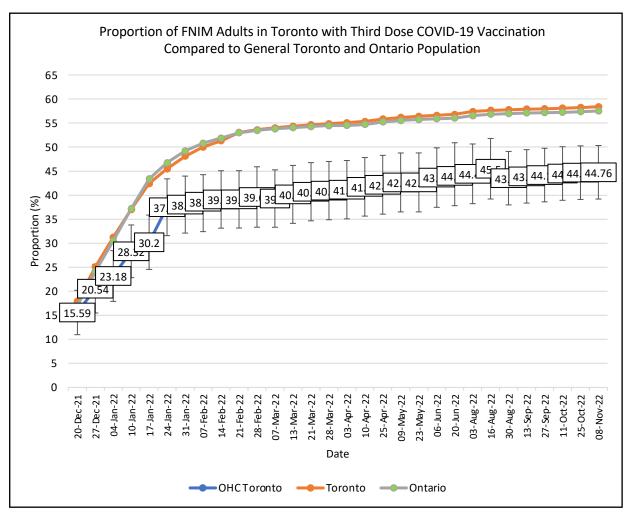
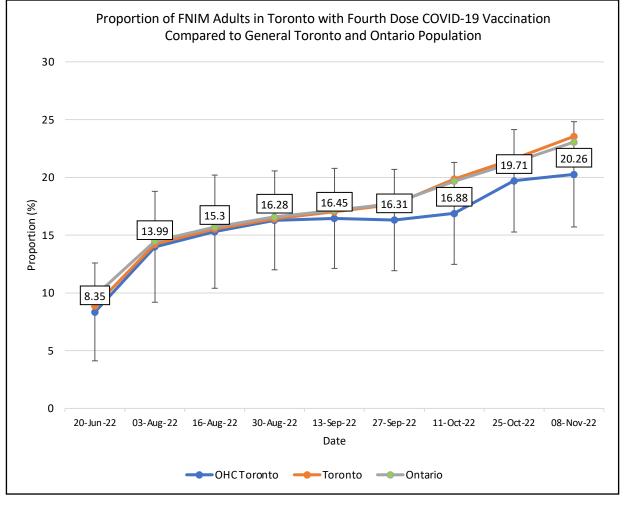


Figure 4: Proportion of Indigenous adults who have received <u>fourth dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



#### FIRST DOSE COVID-19 VACCINATIONS

Figure 4:RDS-II Adjusted Proportion of Indigenous adults who have received <u>first dose</u> of COVID-19, stratified by age

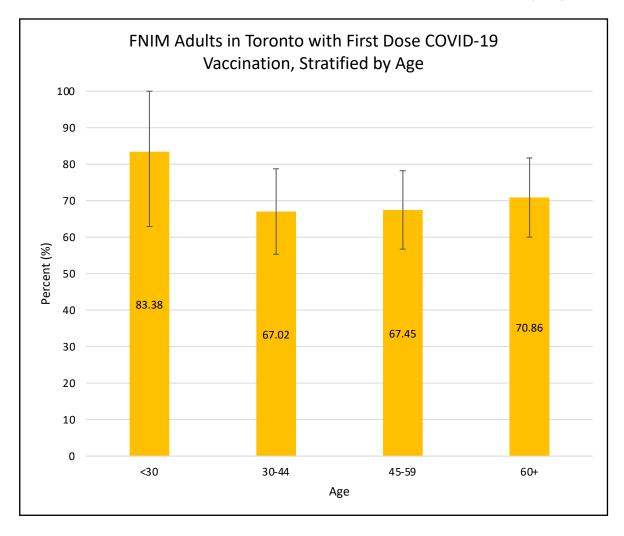
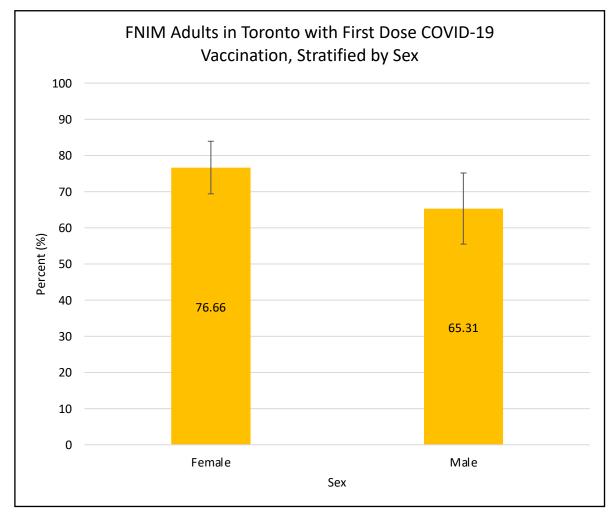


Figure 5: HCG Adjusted Proportion of Indigenous adults who have received <u>first dose</u> of COVID-19, stratified by sex



#### **SECOND DOSE COVID-19 VACCINATIONS**

Figure 6: RDS-II Adjusted Proportion of Indigenous adults who have received <u>second dose</u> of COVID-19, stratified by age

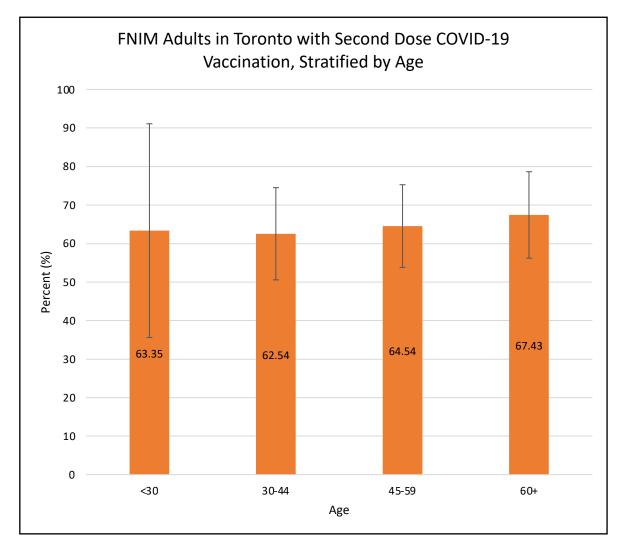
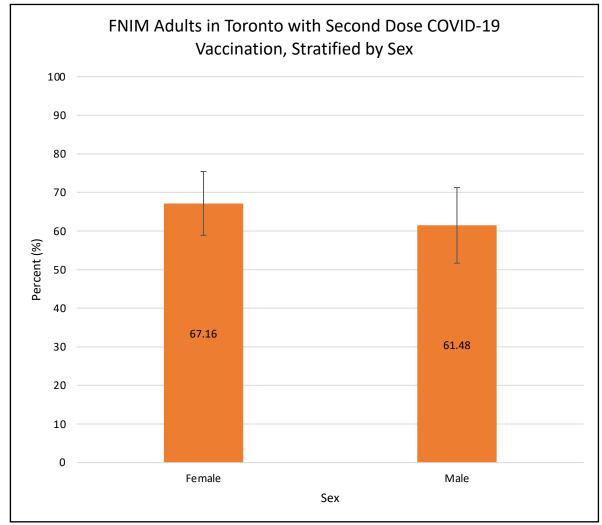


Figure 7: HCG Adjusted Proportion of Indigenous adults who have received <u>second dose</u> of COVID-19, stratified by sex



#### THIRD DOSE COVID-19 VACCINATIONS

Figure 8: RDS-II Adjusted Proportion of Indigenous adults who have received <u>third dose</u> of COVID-19, stratified by age

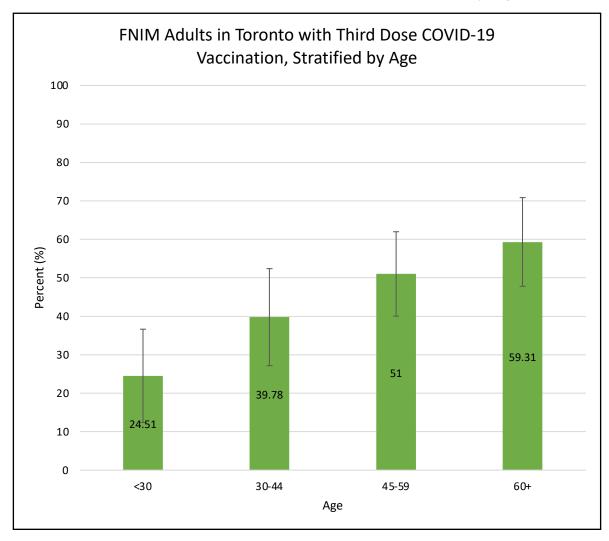
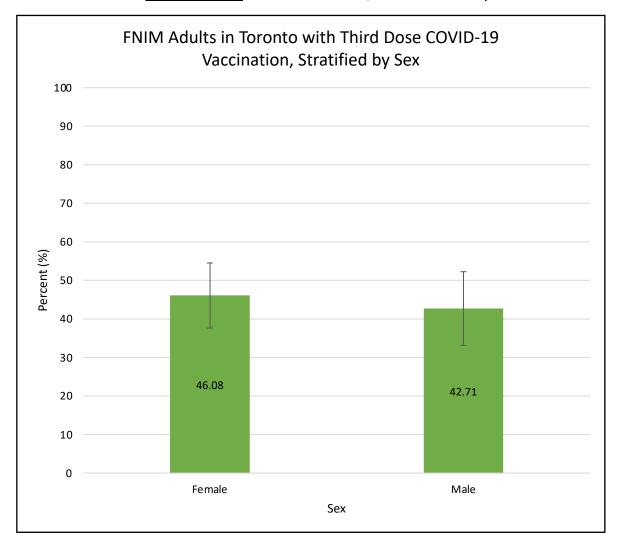


Figure 9: HCG Adjusted Proportion of Indigenous adults who have received **third dose** of COVID-19, stratified by sex



#### **FOURTH DOSE COVID-19 VACCINATIONS**

Figure 10: RDS-II Adjusted Proportion of Indigenous adults who have received <u>fourth dose</u> of COVID-19, stratified by age

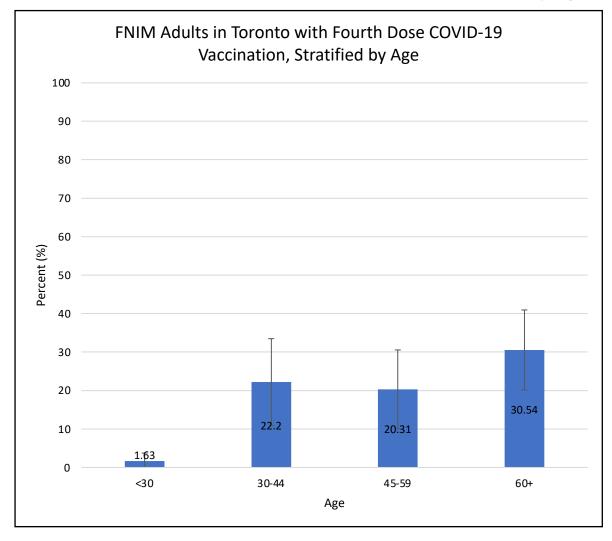


Figure 11: HCG Adjusted Proportion of Indigenous adults who have received <u>fourth dose</u> of COVID-19, stratified by sex

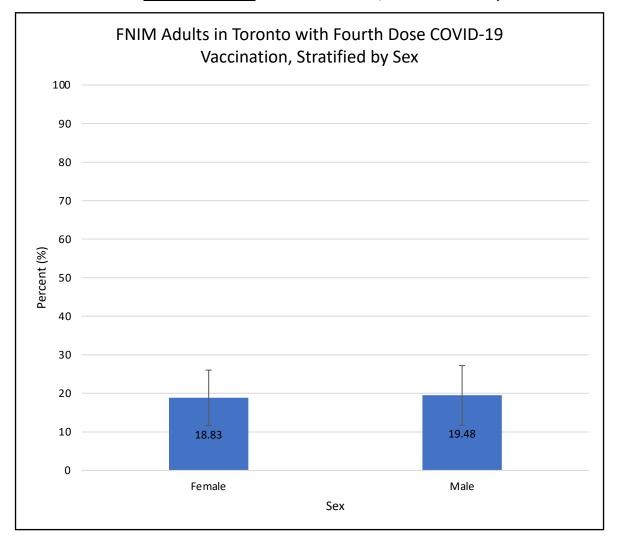


Table 2: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccinate (2 Doses) FNIM Adults in Toronto

Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021	Estimated required number of vaccine events (FNIM population x 2 doses)
71,097*	142,194

<sup>\*</sup>Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021. Estimate includes assumption that Indigenous population has grown by 5% since 2016

Table 3: Estimated number of FNIM vaccination events required for complete vaccination (2 doses) FNIM adult population in Toronto.

Vaccination	HCG-Adjusted Proportion of First & Second Dose Vaccinations Administered to FNIM OHC Toronto Adults (%)	Non-conservative 2021 population estimates for FNIM adults (15+) in Toronto	Estimated # of Vaccinations Given (FNIM population x % vaccines administered)	Estimated # of Vaccinations Required (Estimated required number of vaccine events - Estimated # of Vaccinations Given)
First Dose	71.85 [66.97, 76.74]	71,097	51,083	
Second Dose	65.04 [59.89, 70.19]	71,097	46,241	
Total			97,325	44,869

Table 4: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccinate FNIM Adults in Toronto, Including Third Dose of Booster

Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021	Estimated required number of vaccine events (FNIM population x 3 doses)
71,097*	213,291

<sup>\*</sup>Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021. Estimate includes assumption that Indigenous population has grown by 5% since 2016

Table 5: Estimated number of FNIM vaccination events required for complete vaccination, including third dose booster of FNIM adult population in Toronto.

Vaccination	HCG-Adjusted Proportion of First & Second Dose Vaccinations Administered to FNIM OHC Toronto Adults (%)	Non-conservative 2021 population estimates for FNIM adults (15+) in Toronto	Estimated # of Vaccinations Given (FNIM population x % vaccines administered)	Estimated # of Vaccinations Required (Estimated required number of vaccine events - Estimated # of Vaccinations Given)
First Dose	71.85 [66.97, 76.74]	71,097	51,083	
Second Dose	65.04 [59.89, 70.19]	71,097	46,241	
Third Dose	44.76 [39.19, 50.33]	71,097	31,823	
Total			129,148	84,143

Table 6: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccination FNIM Adults in Toronto, Including Fourth Dose of Booster

Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021	Estimated required number of vaccine events (FNIM population x 4 doses)
71,097*	284,388

<sup>\*</sup>Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021. Estimate includes assumption that Indigenous population has grown by 5% since 2016

Table 7: Estimated number of FNIM vaccination events required for complete vaccination, including fourth dose booster of FNIM adult population in Toronto.

Vaccination	HCG-Adjusted Proportion of First & Second Dose Vaccinations Administered to FNIM OHC Toronto Adults (%)	Non-conservative 2021 population estimates for FNIM adults (15+) in Toronto	Estimated # of Vaccinations Given (FNIM population x % vaccines administered)	Estimated # of Vaccinations Required (Estimated required number of vaccine events - Estimated # of Vaccinations Given)
First Dose	71.85 [66.97, 76.74]	71,097	51,083	
Second Dose	65.04 [59.89, 70.19]	71,097	46,241	
Third Dose	44.76 [39.19, 50.33]	71,097	31,823	
Fourth Dose	20.26 [15.71, 24.82]	71,097	14,404	
Total			143,552	140,836

#### **COVID-19 HOSPITALIZATIONS**

Table 8: Proportion of Indigenous adults testing positive for COVID-19 and were hospitalized in comparison to general Toronto and Ontario population from January 2020 to November 8, 2022. Total sample n= 687, representing n=71,096 FNIM in Toronto\*\*. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

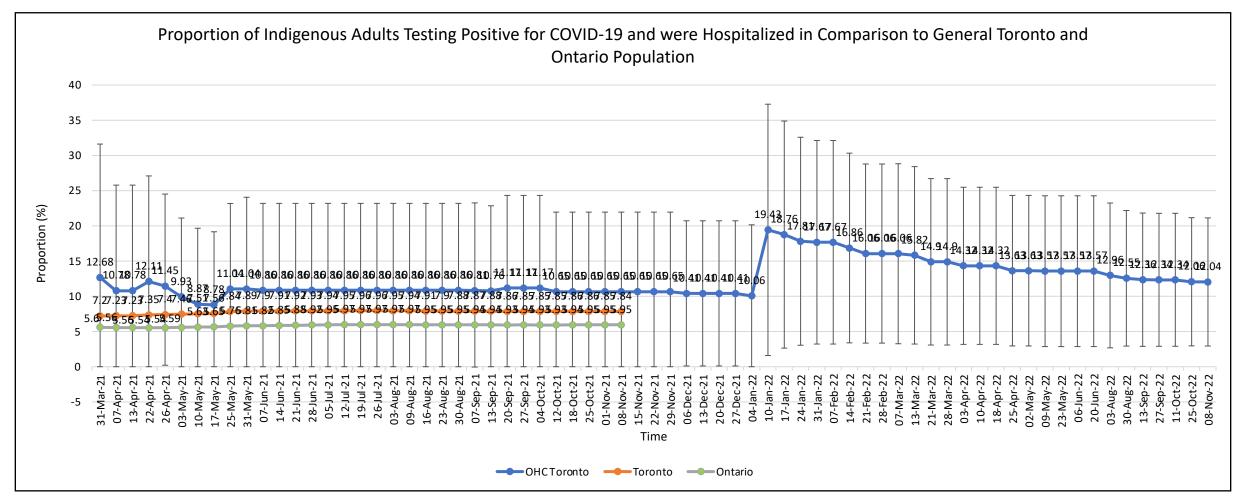
	FNIM Population in Toronto*		City of T	City of Toronto Population		Ontario Population	
	n	RDS-II Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %	
Hospitalizations	12	12.04 [2.94, 21.13]	13,590	5.04	51,416	4.21	
Total COVID-19 positive cases	114		269,503		1,221,346		

<sup>\*</sup>Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019 and have tested positive for COVID-19, excluding seeds

<sup>\*\*</sup>Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021

#### **COVID-19 HOSPITALIZATIONS**

Figure 12: Proportion of Indigenous adults testing positive for COVID-19 and were hospitalized over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.



#### **INCIDENCE OF COVID-19 POSITIVE CASES**

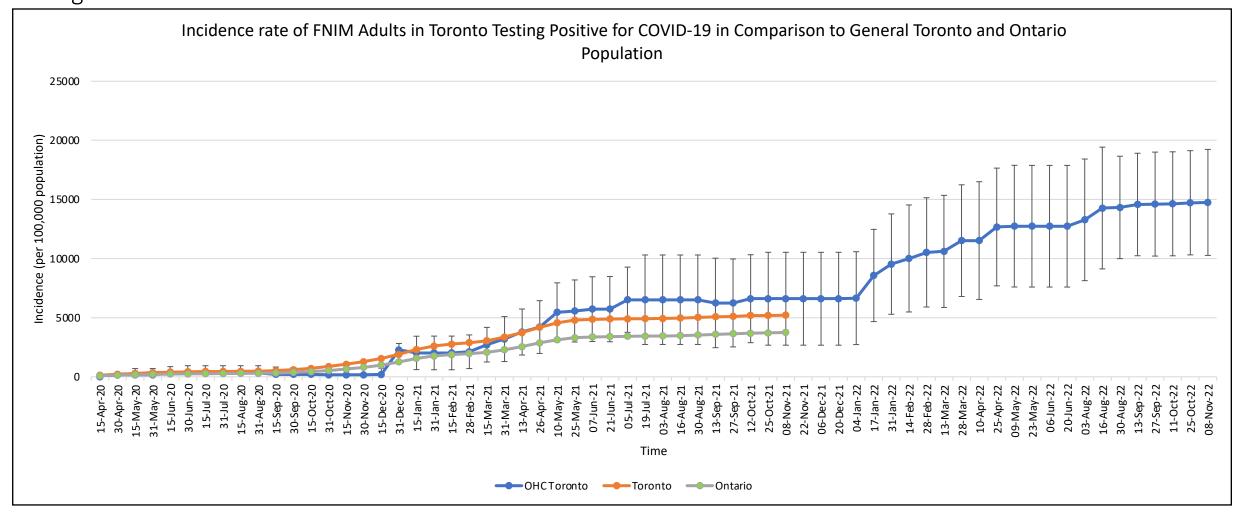
Table 9: Incidence rate of Indigenous adults testing positive for COVID-19 in comparison to general Toronto and Ontario population from January 2020 to November 8, 2022. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of Tor	onto Population	Ontario Population	
	n	HCG-Adjusted Incidence Incidence per 100,000 FNIM population [95% Confidence Interval]	n	Crude Incidence Incidence per 100,000 population	n	Crude Incidence Incidence per 100,000 population
Positive COVID-19 test	114	14,748 [10,273, 19,22]	269,503	11,511	1,221,346	10,016
Total	689		2,341,276		12,194,484	

<sup>\*</sup>Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019, excluding seeds

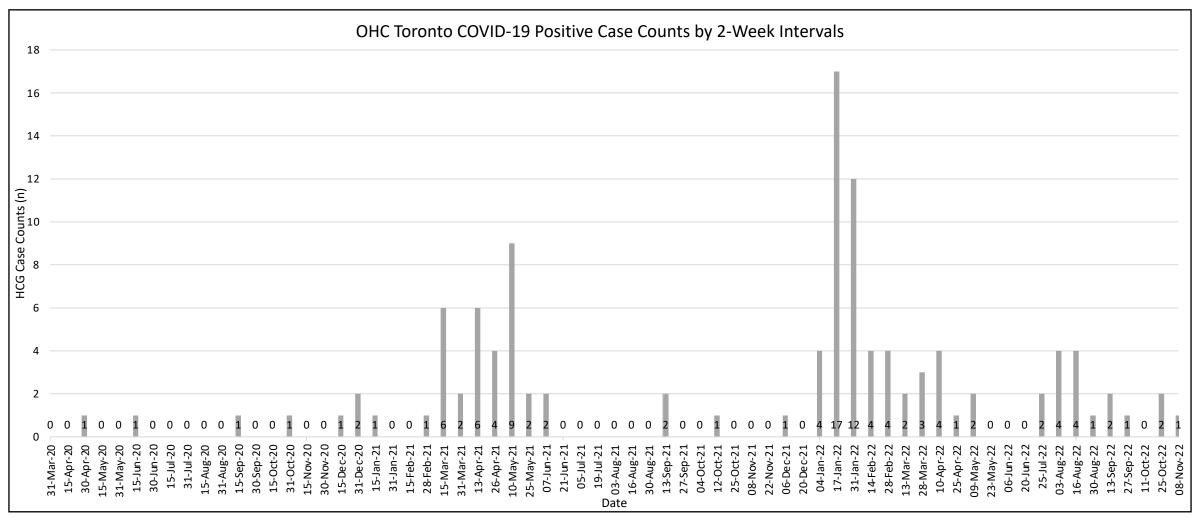
#### **INCIDENCE OF COVID-19 POSITIVE CASES**

Figure 13: Incidence rate of Indigenous adults testing positive for COVID-19 over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.



#### **COVID-19 POSITIVE CASES**

Figure 14: Indigenous adult COVID-19 positive case counts by two-week intervals. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.



#### **COVID-19 TESTING PREVALENCE**

Table 10: Prevalence of COVID-19 testing among FNIM adults in Toronto in comparison to general Toronto and Ontario population from January 2020 to November 8, 2022. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of Tor	onto Population	Onta	ario Population	
	n	HCG-Adjusted Period Prevalence % [95% Confidence Interval]	n	Crude Period Prevalence %	n	Crude Period Prevalence %	
Tested	477	61.30 [55.96, 66.64]	1,214,449	51.87	6,226,261	51.06	
Not Tested	212	38.70 [33.36, 44.04]	1,126,827	48.13	5,968,223	48.94	
Total	689		2,341,276		12,194,484		

<sup>\*</sup>Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019, excluding seeds

### References

Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to March 31, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021 Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to April 13, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to April 22, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to April 26, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 3, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 10, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 17, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 25, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 31, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to June 7, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to June 14, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to June 21, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to June 28, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to July 5, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to July 12, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to July 19, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to July 26, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to August 3, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to August 9, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to August 16, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to August 23, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to August 30, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021 Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to September 7, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to September 13, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to September 20, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to September 27, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to October 4, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to October 12, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to October 18, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.

# References

Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to October 25, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to November 1, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to November 8, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to November 15, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to November 22, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B. Schultz S. Mecredy G. Avery L. McConkey S. Rotondi M. Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto. Ontario-Update to November 29, 2021. Applied Health Research Questions (AHRO) #00950.088.000. Toronto: Institute for Clinical Evaluative Sciences: 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to December 6, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to December 13, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to January 4, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to January 10, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to January 17, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to January 24, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to January 31, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to February 7, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to February 14, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to February 20, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021 Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to February 28, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to March 7, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to March 13, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to March 21, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to March 28, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to April 3, 2021, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to April 10, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to April 18, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B. Schultz S. Mecredy G. Avery L. McConkey S. Rotondi M. Smylie J. COVID-19 in First Nations. Métis and Inuit communities in Toronto, Ontario-Update to April 25, 2022, Applied Health Research Questions (AHRO) #00950,088,000, Toronto: Institute for Clinical Evaluative Sciences: 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 2, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021 Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 9, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to May 23, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to June 6, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021. Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J, COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to June 20, 2022, Applied Health Research Questions (AHRQ) #00950.088.000, Toronto: Institute for Clinical Evaluative Sciences; 2021

## References

- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to July 25, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Aug 3, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Aug 30, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Sept 13, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Sept 27, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Oct 11, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Oct 25, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.
- Rachlis B, Schultz S, Mecredy G, Avery L, McConkey S, Rotondi M, Smylie J. COVID-19 in First Nations, Métis and Inuit communities in Toronto, Ontario-Update to Nov 8, 2022, Applied Health Research Questions (AHRQ) #p0950.088.000. Toronto: Institute for Clinical Evaluative Sciences; 2021.